

# Aaron Donoho

St. Louis, MO 63126  
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Senior / Staff Software Engineer with 12 years of experience  
Backend, Distributed Systems & Cloud Infrastructure

## Technical Expertise

**Tools & Languages:** Java, C#, JavaScript, TypeScript, Node.js, React, Angular, R, Shiny, SQL, PostgreSQL, AWS, Docker, Kafka, Git, Terraform, Jenkins

**Skills:** Web apps, microservices, RESTful APIs, UI/UX, ETL/data processing pipelines, data visualization, software architecture, CI/CD, object-oriented and functional programming, Agile, TDD, pair programming

**Values:** Collaboration, mentorship culture, support toward teammates, empathy, patience, transparent and respectful communication, holistic thinking, dedication to a good cause

## Career Summary

### Reinsurance Group of America

Mar 2024 - Mar 2026

#### Senior Software Engineer (Consultant)

Remote

- Developed system definitions informed by stakeholder and user requirements
- Architected cloud-based data pipeline enabling secure delivery from data producers to consumers
- Implement multi-region application deployment in existing applications
  - Created docs enabling AI to apply CI/CD and Terraform changes across hundreds of repos
- Strengthened application security through vulnerability remediation
- Retired legacy systems to reduce operational overhead and attack surface
- Primary tech stack in this role: JS/TS, Node.js, React, C#, AWS, Terraform, Jenkins

### World Wide Technology

Sept 2019 - Feb 2024

#### Senior Software Engineer & Technical Lead

St. Louis, Missouri

- Served as a consultant integrated with enterprise clients, leading architecture, modernization, and cloud migration initiatives across multiple engagements
- Modernized legacy monolithic app to scalable microservices and cloud-native distributed systems
  - Analyzed & replaced data flows in existing systems
  - Rewrote existing Java SpringBatch jobs as Node.js for AWS Lambda & Step Functions
  - Extracted Java microservices, improved test coverage, and refactored legacy backend
  - Converted Hibernate queries into performance-optimized PostgreSQL and Oracle SQL
- Technical Lead for multiple systems of a distributed, real-time, event-driven streaming platform
  - Led architecture & development of chat, chat moderation, and notification delivery systems
  - Collaborated with Product Owners and peer Tech Leads to plan & deliver features
  - Mentored and supported backend engineers across the team

- Tech stack: Docker, Kotlin, Kafka, KStreams, PostgreSQL, Redis, React, Node, NestJS, TypeScript, Swagger
- Enhanced full-stack reconnaissance & communication applications
  - Delivered features including: interactive map, chat, inventory tracking
  - Implemented CI pipeline instrumentation in Jenkins (Groovy) to capture and analyze test execution behavior, enabling identification and remediation of flaky tests across build runs
  - Tech Stack: Java, TypeScript, Angular, Node, Electron, message queues

## Velocity DataTech

Sept 2019 - Mar 2022

Software Engineer (Lead Engineer, Sole Developer)

Remote

- Determined tech stack, architecture, deployment pipeline, and infrastructure for software
- Responsible for all development, security, and deployment of customer-facing apps to Cloud
- Part-time effort; World Wide Technology was aware and permissive
- Utilized R, Shiny, Docker, Docker Hub, EC2, ALB, S3, Auth0, AWS, IAM, VPC, load balancing

## CARFAX, Inc

Oct 2014 - Aug 2019

Software Developer

Columbia, Missouri

- Practiced Agile, test-driven development, and pair programming
- Developed/maintained low-latency, high availability, RESTful Java web services
- Supported Spring Batch app processing millions of records per day; writes to Cassandra + Solr
- Created dashboards with R + Shiny to detect data errors and batch job performance regression
- Provided training sessions to coworkers

## FlightSafety International

June 2013 - Oct 2014

Software Engineer

Hazelwood, Missouri

- Shadowed graphics artists from the 3D modeling department to identify tasks for improvement and automation; developed and maintained appropriate software solutions
- Utilized software engineering life cycle: requirements gathering, wireframing and prototyping, implementation, testing, deployment, documentation, and maintenance
- Developed plugins (using C++ and C#) for third-party apps including Photoshop and 3ds Max

## Education & Certifications

AWS Certified Cloud Practitioner

Active through Jan 2027

Blackburn College

Aug 2009 - May 2013

Bachelor's degree in Computer Science, Mathematics with minor in Economics

Carlinville, Illinois

Summa Cum Laude with departmental honors